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1. (Original) A method for recycling water used in the processing of poultry comprising the steps of:

recovering a portion of water used in a non-chilling processing step of poultry processing;

treating said recovered water to reduce impurities and provide disinfection, said step of treating including reacting ozone with said recovered water to produce surfactants; and

reusing said treated water in at least one other step of poultry processing.

- 2. (Original) The method according to claim 1, wherein said step of recovering water is from at least one step in said poultry processing selected from the group consisting of wash steps, non-final rinse steps, water sprays, flumes and final rinse step.
- 3. (Original) The method according to claim 1, wherein said step of treating water includes reacting ozone with said recovered water to produce surfactants and reduce the surface tension of said recovered water.
- 4. (Original) The method according to claim 1, wherein said step of treating includes removal of one or more contaminants selected from the group consisting of solid matter, floatable fats, oils, grease, lipids, blood proteins, carbohydrates, suspended and dissolved organic materials, animal parts and debris.
- 5. (Original) The method according to claim 1, wherein said treated water has a turbidity of less than or equal to 5 Nephelometric Turbidity Units (NTU).

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6. (Original) The method according to claim 1, wherein said step of recovering water

includes passing said water through a recovery sump comprising a basin having a first

compartment for receiving said recovered water and barrier in said basin forming a second

compartment, said first compartment having at least one weir pipe for skimming solids from the

surface of said recovered water leaving skimmed water which, when said skimmed water reaches

a level higher than said barrier, flows into said second compartment, and wherein said second

compartment has an exit orifice in fluid communication therewith for allowing said skimmed

water to exit said basin for further processing.

7. (Original) The method according to claim 6, wherein said recovery sump further

comprises a filter for screening said recovered water prior to said recovered water being received

by said first compartment, and said weir pipe communicates with a drain whereby the skimmed

solids may be continuously removed from said recovered water.

8. (Original) The method according to claim 6, wherein said basin further comprises at

least one drain outlet.

9. (Original) The method according to claim 6, wherein said basin comprises a plurality

of compartments each, except said first compartment, in fluid communication with the preceding

compartment, and each, except the last compartment having a weir pipe for continuous

skimming of solids.

10. (Original) The method according to claim 1, wherein said step of treating further

comprises the steps of:

filtering said recovered water to remove non-dissolved components; and

disinfecting said filtered water to limit its microbiological activity.

11. (Original) The method according to claim 1, further including a step of chilling

poultry, whereby no more than approximately 40 percent of said recovered water originates in

said chilling step.

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12. (Original) The method of processing poultry according to claim 1, wherein said step

of reusing said treated water includes introduction of said treated water into pores and

membranes of poultry.

13. (Currently Amended) A method for recycling water used in the processing of

poultry comprising the steps of:

recovering a portion of water used in a non-chilling processing step of poultry

processing;

treating said recovered water to reduce impurities and provide disinfection, said step of

treating including introducing ozone and chlorine into said recovered water, said step of treating

further including reacting said ozone and with said chlorine with said recovered water to

generate a biocide; and

reusing said treated water in at least one other step of poultry processing.

14. (Currently Amended) The method of processing poultry according to claim 13,

wherein said step of treating includes generating a chloramine hypochlorous acid via said

reaction of said ozone and said chlorine with said recovered water.

15. (Original) The method of processing poultry according to claim 13, wherein said step

of treating includes destroying bacteria and microorganisms from said recovered water.

16. (Original) The method of processing poultry according to claim 13, wherein said step

of treating includes releasing and destroying bacteria and microorganisms from said poultry.

17. (Original) The method according to claim 13, wherein said treated water has a

turbidity of less than or equal to 5 Nephelometric Turbidity Units (NTU).

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18. (Original) The method according to claim 13, wherein said step of recovering water

includes passing said water through a recovery sump comprising a basin having a first

compartment for receiving said recovered water and barrier in said basin forming a second

compartment, said first compartment having at least one weir pipe for skimming solids from the

surface of said recovered water leaving skimmed water which, when said skimmed water reaches

a level higher than said barrier, flows into said second compartment, and wherein said second

compartment has an exit orifice in fluid communication therewith for allowing said skimmed

water to exit said basin for further processing.

19. (Original) The method according to claim 18, wherein said recovery sump further

comprises a filter for screening said recovered water prior to said recovered water being received

by said first compartment, and said weir pipe communicates with a drain whereby the skimmed

solids may be continuously removed from said recovered water.

20. (Currently Amended) A method of processing poultry comprising the steps of:

recovering water used in at least one processing step associated with processing poultry;

treating said recovered water to reduce microorganisms within said poultry, said step of

treating including introducing ozone and chlorine into said recovered water, reacting ozone with

said recovered water to produce surfactants such that the surface tension of said recovered water

about said poultry is reduced, said step of treating further including reacting said ozone and with said chlorine with said recovered water to generate a biocide such that bacteria and

microorganisms are released from said poultry and destroyed; and

reintroducing said treated water into any of said at least one processing step whereby said

treated water is introduced into said poultry and said introduction reduces the level of

microorganisms within said poultry.

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21. (Currently Amended) A method for recycling water used in the processing of poultry comprising the steps of:

recovering a portion of water used in a non-chilling processing step of poultry processing, said recovered water containing animal fats;

treating said recovered water to reduce impurities and provide disinfection, said step of treating further including introducing ozone into said recovered water, wherein said introduction of said ozone saponifies said animal fats to produce a surfactant, introducing chlorine into said recovered water, and reacting said ozone and with said chlorine with said recovered water to generate a biocide; and

reusing said treated water in at least one other step of poultry processing.

22. (Original) In a method for processing poultry comprising the steps of washing, rinsing, and chilling said poultry with water, the improvement comprising:

introducing a surfactant into said water, whereby said surfactant reacts with said water to reduce the surface tension of said water.

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CONCLUSION

Claims 13, 14, 20, and 21 have been amended to further define Applicants' invention and not for reasons of prior art. The claims are believed to patentably distinguish over the prior art and to be in condition for allowance. Early and favorable consideration of this application is respectfully requested.

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Respectfully submitted,

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